

JM12-50



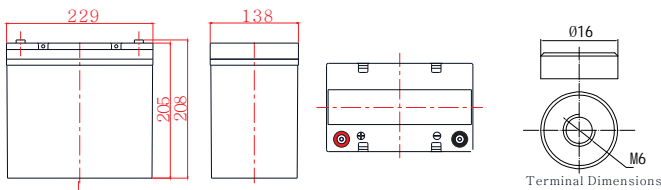
JM Series lead-acid battery

General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life



Dimension: 229(L)×138(W)×205(H)×208(TH) Unit: mm



Applications

- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

Specification

| | |
|------------------------|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 50Ah |
| Design life | 10 years |
| Terminal | M6 |
| Approx. Weight | Approx 15.5kg (34.17lbs) |
| Container Material | ABS |
| Rated Capacity | 50.0Ah 10Hour Rate (5.00A to 10.8V) |
| | 40.8Ah 3Hour Rate (13.6A to 10.2V) |
| | 33.6Ah 1Hour Rate (33.6A to 9.6V) |
| Internal resistance | Full charged at 25°C: 11.8 mΩ |
| Max. Discharge Current | 540A(5S) Discharge: -20 ~50°C(-4~ 122°F) |
| Operating Temperature | Charge: -20 ~50°C(-4~ 122°F) |
| | Storage: -20 ~50°C(-4~ 122°F) |
| | Charge current: Max. 11.3A ; Recom.4.5A |
| Charge Method (25 °C) | Float Charge:13.5-13.8V,recom.13.8V(-18mV/ °C) |
| | Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C) |
| | Cycle charge:14.4-15.0V,recom.14.7V(-30mV/ °C) |
| Self discharge | 3% of capacity declined per month at 25°C |

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

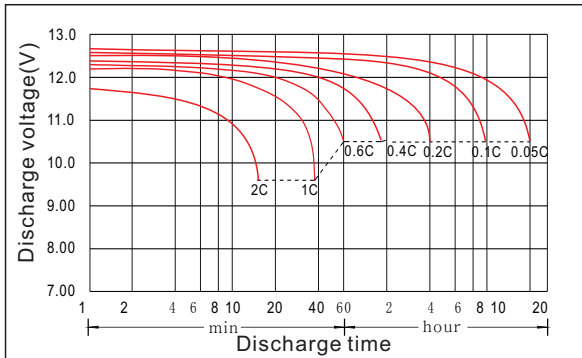
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 176 | 117 | 94.5 | 57.5 | 41.2 | 33.6 | 21.1 | 19.3 | 14.0 | 10.1 | 9.36 | 7.50 | 6.17 | 5.20 | 2.73 |
| 1.65V | 171 | 117 | 91.8 | 56.6 | 41.1 | 33.5 | 20.9 | 19.2 | 13.9 | 10.0 | 9.27 | 7.42 | 6.13 | 5.15 | 2.72 |
| 1.70V | 164 | 116 | 89.8 | 55.6 | 40.7 | 33.2 | 20.7 | 19.1 | 13.6 | 9.95 | 9.18 | 7.35 | 6.07 | 5.10 | 2.70 |
| 1.75V | 151 | 114 | 86.9 | 55.1 | 40.1 | 32.7 | 20.5 | 18.7 | 13.5 | 9.85 | 9.09 | 7.28 | 6.03 | 5.05 | 2.69 |
| 1.80V | 135 | 111 | 81.0 | 52.7 | 39.1 | 31.9 | 20.3 | 18.5 | 13.5 | 9.75 | 8.87 | 7.21 | 5.98 | 5.00 | 2.67 |
| 1.85V | 121 | 103 | 72.2 | 48.1 | 36.2 | 29.5 | 19.7 | 17.5 | 12.6 | 9.46 | 8.43 | 6.99 | 5.73 | 4.85 | 2.63 |

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

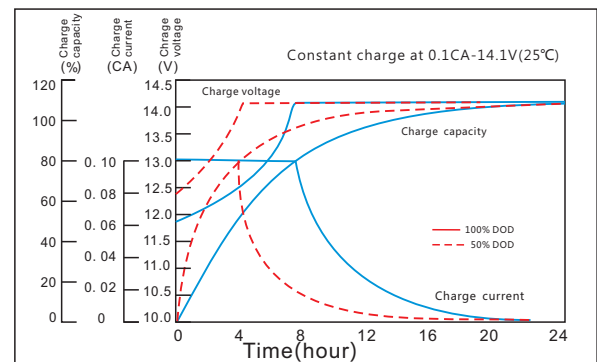
| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.60V | 295 | 198 | 166 | 105 | 76.3 | 63.6 | 42.2 | 36.5 | 26.6 | 20.0 | 17.8 | 14.7 | 12.0 | 10.0 | 5.40 |
| 1.65V | 285 | 197 | 164 | 104 | 75.8 | 63.2 | 41.8 | 36.4 | 26.3 | 19.8 | 17.7 | 14.5 | 11.9 | 9.91 | 5.37 |
| 1.70V | 283 | 195 | 162 | 104 | 75.1 | 62.6 | 41.4 | 36.3 | 26.2 | 19.6 | 17.6 | 14.4 | 11.8 | 9.82 | 5.35 |
| 1.75V | 264 | 194 | 161 | 103 | 74.6 | 62.2 | 41.1 | 36.1 | 26.0 | 19.5 | 17.5 | 14.3 | 11.7 | 9.73 | 5.33 |
| 1.80V | 242 | 193 | 152 | 100 | 74.0 | 61.7 | 40.7 | 36.0 | 25.9 | 19.3 | 17.3 | 14.1 | 11.6 | 9.64 | 5.30 |
| 1.85V | 216 | 179 | 136 | 91.8 | 68.8 | 57.3 | 39.9 | 34.4 | 24.6 | 18.9 | 16.5 | 13.9 | 11.3 | 9.45 | 5.25 |

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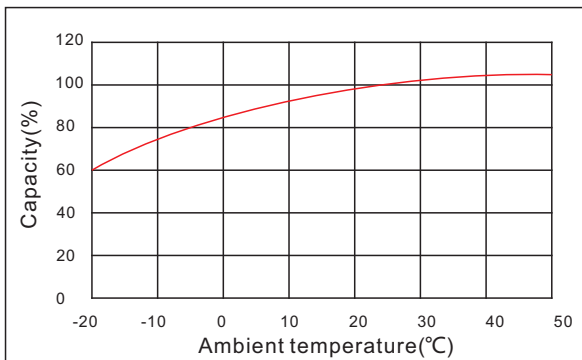
Discharge characteristic



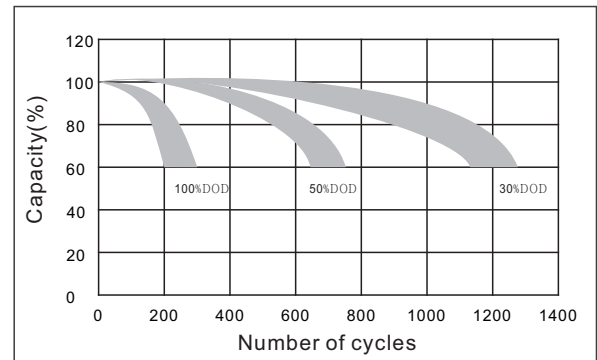
Charging characteristic



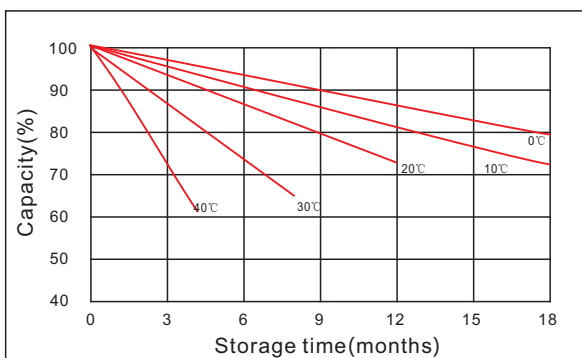
The effect of temperature on capacity



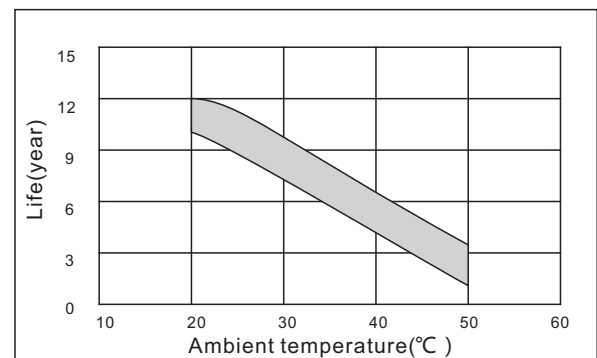
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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